

IN THE CLAIMS

1. (Canceled).
2. (Canceled).
3. (Canceled).
4. (Canceled).
5. (Canceled).
6. (Canceled).
7. (Canceled).
8. (Canceled).

9. (Original) An apparatus for intact testing of an object, comprising, in combination:

means for scanning the intact object mounted on a robot;  
and

comparison means to correlate data from the scanning means to a standard;

a structure configured to contain said apparatus and said object under inspection;

said apparatus is coupled to said structure, resulting in the formation of a gantry for supporting a carriage, a mast mounted on said carriage and at least one of an emitter and detector mounted on said mast which forms in part at least one inspection robot capable of precise positioning over large ranges of motion;

said at least one inspection robot further comprises a beam structure for supporting and allowing horizontal translation of said carriage;

said carriage is coupled to said mast, wherein said mast supports and allows a vertical translation of said at least one of the emitter and detector mounted on said mast, and wherein said mast is configured to provide yaw movement of said at least one of the emitter and detector; and

said at least one of the emitter and detector is configured to provide rotation about at least one axis of roll and yaw motion of said at least one emitter and detector.

10. (Original) The apparatus of Claim 9, wherein said scanning means includes ultrasonics.

11. (Original) The system of Claim 9, wherein at least one of the emitter and detector is configured to provide rotation about an axis of pitch motion of said at least one emitter and detector.

12. (Original) The system of Claim 9, wherein said at least one of the emitter and detector is configured to a yoke to provide rotation about at least one axis of pitch and roll motion of said at least one of the emitter and detector.

13. (Original) An apparatus for intact testing of an object, comprising, in combination:

means for scanning the intact object mounted on a robot;  
comparison means to correlate data from the scanning means to a standard;

a structure dimensioned to receive the object therewithin;

said robotic scanning means supported by said structure and including means to move a scanning head of said robotic scanning means in three linear directions and at least two rotational directions;

means to initialize said scanning head both with respect to said robot and with respect to the object; and

means to correlate data derived from scanning the object to a standard.

14. (Original) The apparatus of claim 13, wherein said robotic scanning means including means to move the scanning head of said robotic scanning means in three linear directions and three rotational directions.

15. (Original) The apparatus of claim 13, further comprising means to hold the object in a constant position.

16. (Original) The apparatus of claim 15, further comprising means to assess gross distortion of object geometry.

17. (Original) The apparatus of claim 16, further comprising said scanning head generating a laser scan.

18. (Original) The apparatus of claim 16, further comprising said scanning head generating an electromagnetic scan.

19. (Original) The apparatus of claim 16, further comprising said scanning head generating a radar scan.

20. (Canceled).

21. (Canceled).

22. (Canceled).

23. (Canceled).

24. (Canceled).

25. (Canceled).